

## 03060107-020

### (Turkey Creek)

#### General Description

Watershed 03060107-020 is located in Greenwood, McCormick, Edgefield, and Saluda Counties and consists primarily of **Turkey Creek** and its tributaries. The watershed occupies 154,607 acres of the Piedmont and Upper Coastal regions of South Carolina. The predominant soil types consist of an association of the Herndon-Tatum-Georgeville series. The erodibility of the soil (K) averages 0.35, and the slope of the terrain averages 7%, with a range of 2-25%. Land use/land cover in the watershed includes: 76.6% forested land, 12.3% barren land, 9.7% agricultural land, 0.7% forested wetland, 0.4% urban land, 0.2% water, and 0.1% nonforested wetland.

Turkey Creek originates near the Town of Johnston and accepts drainage from Little Turkey Creek (Bartley Branch), Center Spring Branch, Little Stevens Creek (Rocky Creek), and Sleepy Creek (Flat Rock Branch, Ephriam Branch). Talbert Branch and Mt. Carmel Branch join to form Mountain Creek, which accepts drainage from Catholic Branch, Pickell Branch, Little Mountain Creek, Bell Branch (Quaker Branch), and Hegwood Branch before draining into Turkey Creek. Log Creek (Dunn Creek) enters Turkey Creek next, followed by Jim Branch, Crooked Run, and Rocky Creek (Wiley Branch, Stockman Branch, Wilson Branch, Cartledge Branch, Bailey Branch). Further downstream, Turkey Creek accepts drainage from Pike Branch, Horse Branch, Broadwater Branch, Cyper Creek, Goff Branch, Wine Creek (Church Branch, Mack Branch), the Beaverdam Creek watershed, Coon Creek, Rock Creek, and Blue Branch. Turkey Creek drains into Stevens Creek. There are a total of 325.8 stream miles and 250.6 acres of lake waters in this watershed, all classified FW. The Sumter National Forest extends over a large portion of the watershed.

#### Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
SV-729	BIO	FW	TURKEY CREEK AT S-191-100
SV-728	BIO	FW	LOG CREEK AT S-19-315
SV-727	BIO	FW	ROCKY CREEK AT S-19-61
SV-352	W	FW	TURKEY CREEK AT S-33-227/S-19-68

**Log Creek (SV-728)** – Aquatic life uses are fully supported based on macroinvertebrate community data.

**Rocky Creek (SV-727)** – Aquatic life uses are fully supported based on macroinvertebrate community data.

**Turkey Creek** – There are two monitoring sites along Turkey Creek. At the upstream site (**SV-729**), aquatic life uses are fully supported based on macroinvertebrate community data. At the downstream site (**SV-352**), aquatic life and recreational uses are fully supported.

## Nonpoint Source Management Program

### *Land Disposal Activities*

#### **Landfill Facilities**

<i>LANDFILL NAME</i>	<i>PERMIT #</i>
<i>FACILITY TYPE</i>	<i>STATUS</i>
EDGEFIELD COUNTY SANITARY LANDFILL	DWP-040 (SCD001409002)
DOMESTIC	INACTIVE
TRI-COUNTY LANDFILL	DWP-109; 194200-6001; 194200-1601
DOMESTIC	INACTIVE
TRI-COUNTY LANDFILL	194200-1201
C & D	INACTIVE

### *Mining Activities*

<i>MINING COMPANY</i>	<i>PERMIT #</i>
<i>MINE NAME</i>	<i>MINERAL</i>
BORAL BRICK INC./MERRY DIV.	0040-37
EDGEFIELD SHALE PIT	SHALE

## **Growth Potential**

There is a low to moderate potential for growth in this watershed, which contains portions of the Towns of Johnston and Edgefield. The Edgefield County Water and Sewer Authority's Regional Sewer Collection System now serves Edgefield County, and the Saluda County and the Town of Saluda where it connects to the sewer system of the City of North Augusta for final connection to the Horse Creek Valley WWTP. The Town of Johnson has also tied into the system, allowing for possible growth. A new industrial park has been proposed for the Town of Johnston between Hwy 23 and Hwy 121, and if built, would greatly increase industrial growth in this watershed. A new federal prison and state prison have been constructed in Edgefield County, which should also increase growth. Approximately half of the watershed resides within the Sumter National Forest and would tend to limit growth in that area.